PTO/SB/08A		•		Comple	te if Known
INFO	RMATION	DISC	LOSURE	Application Number	10/616,821
	EMENT B			Filing Date	July 10, 2003
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				Confirmation Number	
DCT , TOTO		ימי,	and a	First Named Inventor	Pampee P. Young
BARENTE BARENT	* \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	TE TRA	S. H. L. S.	Group Art Unit	
a 1 Au				Examiner Name	
Sheet	1	of	6	Attorney Docket No.	WSHU 2047.1

U.S. PATENT DOCUMENTS									
		U.S. Patent Doc	ument						
Examiner Cite No.1		Number	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY				
H	1	4,394,448		Szoka, Jr. et al.	07-19-1983				
<i></i>	2	5,139.941		Muzyczka et al.	08-18-1992				
	3	5,199,942		Gillis, S.	04-06-1993				
	4	5,399,346		Anderson et al.	03-21-1995				
	5	5,436,146		Shenk et al.	07-25-1995				
	6	5,622,856		Natsoulis, G.	04-22-1997				
	7	5,665,577		Sodroski et al.	09-09-1997				
	8	5,672,510		Eglitis et al.	09-30-1997				
	9	5,676,954		Brigham, K.L.	10-14-1997				
	10	5,707,865		Kohn et al.	01-13-1998				
	11	5,817,491		Yee et al.	10-06-1998				
	12	5,910,434		Rigg et al.	06-08-1999				
	13	5,980,887		Isner et al.	11-09-1999				
0	14	5,994,136		Naldini et al.	11-30-1999				
*	15	6,013,516		Verma et al.	01-11-2000				

Examiner Signature	07	(.	Date Considered	3/2/06	
					_

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

^{&#}x27;Unique citation designation number. 2See attached Kinds of U.S. Patent Documents. 3Enter Office that issued the document, by the two-letter code (WiPO Standard ST.3). 4For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. 4Applicant is to place a check mark here if English language Translation is attached or place an "A" here if English language abstract is attached...

PTO/SB/0)8A	•		Comple	ete if Known
INF	ORMATION	DISC	LOSURE	Application Number	10/616,821
ST	ATEMENT BY	/ AP	PLICANT	Filing Date	July 10, 2003
/	. 8			Confirmation Number	
3	OCT 1 0 2003			First Named Inventor	Pampee P. Young
	PASSEN ATT OF			Group Art Unit	
				Examiner Name	
Sheet	2	of	6	Attorney Docket No.	WSHU 2047.1

			FOREIG	N PATE	ENT DOCUMENTS				
		F	oreign Patent Docum	ent					
Examiner Initials*	Cite No. ¹	Office	Office Number Kind Code Cited Document (if known)		Date of Publication of Cited Document MM-DD-YYYY	T ⁶			
	16	wo	96/18418	A1	Genetic Therapy, Inc.	06-20-1996			
	OTHER ART - NON PATENT LITERATURE DOCUMENTS								
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.							
	17	AGARV Express	AGARWAL, M. et al., Scaffold Attachment Region-Mediated Enhancement of Retroviral Vector Expression in Primary T Cells, Journal of Virology, (1998), pp. 3720-3728, Vol. 72:5						
	18	Vasculo	RA, T. et al., Bone Magenesis in Physiologi -228, Vol. 85	arrow Origir ical and Pa	n of Endothelial Progenitor Cells Resp thological Neovascularization, Circula	onsible for Postnatal tion Research, (1999),			
	19		RA, T. et al., Isolation pp. 964-967, Vol. 275		Progenitor Endothelial Cells for Angi	ogenesis, Science,			
	20	ASAHA Marrow	ASAHARA, T. et al., VEGF Contributes to Postnatal Neovascularization by Mobilizing Bone Marrow-Derived Endothelial Progenitor Cells, The EMBO Journal, (1999), pp. 3964-3972, Vol. 18:14						
	21		BERKNER, K.L., Development of Adenovirus Vectors for the Expression f Heterologous Genes, BioTechniques, (1988), pp. 616-628, Vol. 6:7						
	22	BORDIC Immuno	BORDIGNON, C. et al., Gene Therapy in Peripheral Blood Lymphocytes and Bone Marrow for ADA - Immunodeficient Patients, Science, (1995), pp. 470-475, Vol. 270						
X	23	BOYER Blood,	, M. et al., Isolation of Journal of Vascular Si	f Endothelia urgery, (200	al Cells and Their Progenitor Cells from 20), pp. 181-189, Vol. 31:1/1	n Human Peripheral			

Examiner Signature	Of C	Date Considered	3/2/06	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WiPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WiPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached or place an ⁶A* here if English language abstract is attached..

PTO/SB/08A			•	Complete if Known		
IN	NFORMATION	DISC	LOSURE	Application Number	10/616,821	
s	TATEMENT B	Y AP	PLICANT	Filing Date	July 10, 2003	
/				Confirmation Number		
(OCT 1 0 2003	}		First Named Inventor	Pampee P. Young	
	PA TRANSPORT			Group Art Unit		
				Examiner Name		
Sheet	3	of	6	Attorney Docket No.	WSHU 2047.1	

	24	CEPKO, C.L. et al., Construction and Applications of a Highly Transmissible Murine Retrovirus Shuttle Vector, Cell, (1984), pp. 1053-1063, Vol. 37:3	
	25	CHARTIER, C. et al., Efficient Generation of Recombinant Adenovirus Vectors by Homologous Recombination in <i>Escherichia coli</i> , Journal of Virology, (1996), pp. 4805-4810, Vol. 70:7	
	26	CRISA, L. et al., Human Cord Blood Progenitors Sustain Thymic T-Cell Development and a Novel Form of Angiogenesis, Blood, (1999), pp. 3928-3940, Vol. 94:11	
	27	DESNICK, R.J. et al., Fabry Disease (α-Galactosidase A Deficiency): Renal Involvement and Enzyme Replacement Therapy, Contributions to Nephrology, (2001), pp. 174-192, Vol. 136	
	DUNBAR, C. et al., Retroviral Mediated Transfer of the cDNA for Human Glucocerd Hematopoietic Stem Cells of Patients with Gaucher Disease. A Phase I Study, Hu Therapy, (1996), pp. 231-253, Vol. 7		
	29	DUNBAR, C.E. et al., Retrovirally Marked CD34-Enriched Peripheral Blood and Bone Marrow Cells Contribute to Long-Term Engraftment After Autologous Transplantation, Blood, (1995), pp. 3048-3057, Vol. 85:11	
	30	FERRARA, N. et al., Clinical Applications of Angiogenic Growth Factors and Their Inhibitors, Nature Medicine, pp. 1359-1364, Vol. 5:12	
	31	FORESTELL, S.P. et al., Novel Retroviral Packaging Cell Lines: Complementary Tropisms and Improved Vector Production for Efficient Gene Transfer, Gene Therapy, (1997), pp. 600-610, Vol. 4	
	32	FREEMAN, B.J. et al., Behavior and Therapeutic Efficacy of β-Glucuronidase-Positive Mononuclear Phagocytes in a Murine Model of Mucopolysaccharidosis Type VII, Blood, (1999), pp. 2142-2150, Vol. 94:6	
	33	HANANIA, E.G. et al., Results of MDR-1 Vector Modification Trial Indicate that Granulocyte/Macrophae Colony-Forming Unit Cells Do Not Contribute to Posttransplant Hematopoietic Recovery Following Intensive Systemic Therapy, Proc. Natl. Acad. Sci., (1996), pp. 15346-15351, Vol. 93	
X	34	HE, T-C et al., A Simplified System for Generating Recombinant Adenoviruses, Proc. Natl. Acad. Sci., (1998), pp. 2509-2514, Vol. 95	

Examiner Signature	dje	Date Considered	3/2/06	
				

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

^{&#}x27;Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached or place an "A" here if English language abstract is attached..

PTO/SB	/08A		•	Complete if Known		
IN	IFORMATION I	DISC	LOSURE	Application Number	10/616,821	
s	TATEMENT BY	Y AP	PLICANT	Filing Date	July 10, 2003	
	OIPE			Confirmation Number		
	OCT 1 0 2003	ž)		First Named Inventor	Pampee P. Young	
	12			Group Art Unit		
	TABLE PARTY OF THE			Examiner Name		
Sheet	4	of	6	Attorney Docket No.	WSHU 2047.1	

		35	HIGH, K.A., Gene Transfer as an Approach to Treating Hernophillia, Circulation Research, (2001), pp. 137-144, Vol. 88			
0		36	ISNER, J.M. et al., Angiogenesis and Vasculogenesis as Therapeutic Strategies for Postnatal Neovascularizaiton, The Journal of Clinical Investigation, (1999), pp. 1231-1236, Vol. 103:9			
		37	KADHOM, N. et al., Factor VIII Procoagulant Antigen in Human Tissues, Thrombosis and Haemostasis, (1988), pp. 289-294, Vol. 59:2			
		38	KALKA, C. et al., Transplantation of ex vivo Expanded Endothelial Progenitor Cells for Therapeutic Neovascularization, Proc. Natl. Acad. Sci., (2000), pp. 3422-3427, Vol. 97:7			
	KAPPEL, A. et al., Identification of Vascular Endothelial Growth Factor (VEGF) Receptor-2 (Flk-1) Promoter/Enhancer Sequences Sufficient for Angioblast and Endothelial Cell-Specific Transcription in Transgenic Mice, Blood, (1999), pp. 4284-4292, Vol. 93:12					
		40	KIM, T.H. et al., Total-Body Irradiation with a High-Dose-Rate Linear Accelerator for Bone-Marrow Transplantation in Aplastic Anemia and Neoplastic Disease, Radiology, (1977), pp. 523-525, Vol. 122			
		41	LIN, H. et al., Long-Term Acceptance of Major Histocompatibility Complex Mismatched Cardiac Allografts Induced by CTLA4lg Plus Donor-Specific Transfusion, J. Exp. Med., (1993), pp. 1801-1806, Vol. 178			
		42	LIU, J.M. et al., Retroviral Mediated Gene Transfer of the Fanconi Anemia Complementation Group C Gene to Hematopoietic Progenitors of Group C Patients, Human Gene Therapy, (1997), pp. 1715-1730, Vol. 8			
		43	MALECH, H.L. et al., Prolonged Production of NADPH Oxidase-Corrected Granulocytes After Gene Therapy of Chronic Granulomatous Disease, Proc. Natl. Acad. Sci., (1997), pp. 12133-12138, Vol. 94			
		44	MANNUCCI, P.M., How I Treat Patients With von Willebrand Disease, Blood, (2001), pp. 1915-1919, Vol. 97:7			
MARCHETTI, S. et al., Endothelial Cells Genetically Selected from Differentiating Mouse Embryon Stem Cells Incorporate at Sites of Neovascularization In Vivo, Journal of Cell Science, (2002), pp. 2075-2085, Vol. 115		MARCHETTI, S. et al., Endothelial Cells Genetically Selected from Differentiating Mouse Embryonic Stem Cells Incorporate at Sites of Neovascularization In Vivo, Journal of Cell Science, (2002), pp. 2075-2085, Vol. 115				

Examiner Signature	De.	Date Considered	3/2/06

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

^{&#}x27;Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached or place an "A" here if English language abstract is attached..

PTO/SB/08A		Complete if Known			
IN	IFORMATIO	N DISCLO	OSURE	Application Number	10/616,821
STATEMENT BY APPLICANT				Filing Date	July 10, 2003
	OIP	PE		Confirmation Number	
(_ OCT 1 0 2003 E)				First Named Inventor	Pampee P. Young
	13	* /		Group Art Unit	
TAREN MIN				Examiner Name	
Sheet	5	of	6	Attorney Docket No.	WSHU 2047.1

	46	MORISHITA, K. et al., A Novel Promoter for Vascular Endothelial Growth Factor Receptor (fit-1) That Confers Endothelial-Specific Gene Expression, The Journal of Biological Chemistry, (1995), pp. 27948-27953, Vol. 270:46					
1	47	PEICHEV M. et al., Expression of VEGFR-2 and AC133 by Circulting Human CD34* Cells Identifies a Population of Functional Endothelial Precursors, Blood, (2000), pp. 952-958, Vol. 95:3					
	48	PLAVEC, I. et al., High Transdominant RevM10 Protein Levels are Required to Inhibit HIV-1 Replication in Cell Lines and Primary T Cells: Implication for Gene Therapy of AIDS, Gene Therapy, (1997), pp. 128-139, Vol. 4					
	49	QIN, G. et al., Preselective Gene Therapy for Fabry Disease, Proc. Natl. Acad. Sci., (2001), pp. 3428-3433, Vol. 98:6					
	50	RIGG, R.J. et al., A Novel Human Amphotropic Packaging Cell Line: High Titer, Complement Resistance, and Improved Safety, Virology, (1996), pp. 290-295, Vol. 218					
	51	RONICKE, V. et al., Characterization of the Endothelium-Specific Murine Vascular Endothelial Growth Factor Receptor-2 (Flk-1) Promoter, Circulation Research, (1996), pp. 277-285, Vol. 79					
	52	SCHLAEGER, T.M. et al., Uniform Vascular-Endothelial-Cell-Specific Gene Expression in Both Embryonic and Adult Transgenic Mice, Proc. Natl. Acad. Sci., (1997), pp. 3058-3063, Vol. 94					
	53	SHENK, T. et al., Genetic Analysis of Adenoviruses, Microbiol. Immunol., (1984), pp. 1-39, Vol. 111					
	54	SHI, Q. et al., Evidence for Circulating Bone Marrow-Derived Endothelial Cells, Blood, (1998), pp. 362-367, Vol. 92:2					
	55	TUTSCHKA, P.J. et al., Bone Marrow Transplantation for Leukemia Following a New Busulfan and Cyclophosphamide Regimen, Blood, (1987), pp. 1382-1388, Vol. 70:5					
	56	VERES, G. et al., Comparative Analyses of Intracellularly Expressed Antisense RNAs as Inhibitors of Human Immunodeficiency Virus Type 1 Replication, Journal of Virology, (1998), pp. 1894-1901, Vol. 72:3					
	57	WALSH, C.E., Gene Therapy for the Hemophilias, Current Opinion in Pediatrics, (2002), pp. 12-16, Vol. 14					
	58	YEAGER, A.M. et al., Bone Marrow Transplantation for Infantile Ceramidase Deficiency (Farber Disease), Bone Marrow Transplantation, (2000), pp. 357-363, Vol. 26					
Examiner Signature		Date Considered 3/2/06					

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

'Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached or place an "A" here if English language abstract is attached..

PTO/SB/08A				Complete if Known		
INFORMATION DISCLOSURE STATEMENT BPARPLICANT			LOSURE	Application Number	10/616,821	
				Filing Date	July 10, 2003	
OCT 1 0 2003				Confirmation Number		
				First Named Inventor	Pampee P. Young	
				Group Art Unit		
				Examiner Name		
Sheet	6	of	6	Attorney Docket No.	WSHU 2047.1	

59	YOUNG, P.P. et al., VEGF Increases Engraftment of Bone Marrow-Derived Endothelial Progenitor Cells (EPCs) into Vasculature of Newborn Murine Recipients, Proc. Natl. Acad. Sci., (2002), pp. 11951-11956, Vol. 99:18	
60	ZANJANI, E.D. et al., Prospects for in Utero Human Gene Therapy, Science, (1999), pp. 2084-2088, Vol. 285	

Examiner Signature	OAC-	Date Considered	3/2/06
			· · · · · · · · · · · · · · · · · · ·

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

'Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached or place an "A" here if English language abstract is attached.